## Claims

5 1. A composition comprising

- a) at least one polydiorganosiloxane having at least two olefinically unsaturated groups as component (a),
- b) at least one organohydrogenpolysiloxane as component (b),
- c) at least one alkylsiloxane having at least one carbinol, carboxy or amino group as component (c),
- d) at least one condensation cure compound as component (d) and
- e) at least one addition cure precious metal catalyst as component (e).
- 2. A composition according to claim 1, characterized in that component (c) contains at least one compound of the formula

$$R^{1}_{3}Si-O-[SiR^{1}_{2}-O-]_{a}SiR^{1}_{2}-Y-(O-R^{2})_{d}-X_{e}-[(O-R^{2})_{b}-OH]_{c}$$
 (II) or

$$[HO-(R^2-O)_b]_c-X_e-(R^2-O)_d-Y-[SiR^1{}_2-O-]_aSiR^1{}_2-Y-(O-R^2)_d-X_e-[(O-R^2)_b-OH]_c$$
 (III) or

$$R^{1}{}_{3}Si-O-\{[SiR^{1}{}_{2}-O-]_{n}\ [SiR^{1}(-Y-(O-R^{2})_{d}-X_{e}-[(O-R^{2})_{b}-OH]_{c})-O-]_{m}\}-SiR^{1}{}_{3}$$
 (IIIa) or

$$\begin{array}{cccc}
D & R^{1} \\
D & O - Si & R^{1} \\
R^{1} - Si & O & \\
O & Si - D & R^{1} \\
D & R^{1} & X
\end{array}$$
(IIIb)

25 (IIIb),

wherein X is a linear or branched hydrocarbon or an aryl residue that may contain an oxygen atom and/or an ether group with 6 to 14 C-atoms and a valency of c, Y is a linear or branched alkylene group with 1 to 10 C-atoms or a cycloalkyl group with 4 to 14 C-atoms, R<sup>1</sup> is a linear or branched alkyl or fluoroalkyl group with 1 to 8 C-atoms

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or a cycloalkyl or aryl group with 6 to 14 C-atoms,  $R^2$  is a linear or branched alkylene group that may contain a carbonyl group with 1 to 8 C-atoms, D is  $R^1$  or  $-Y-(O-R^2)_d-X_e-[(O-R^2)_b-OH]_c$  with at least one residue  $-Y-(O-R^2)_d-X_e-[(O-R^2)_b-OH]_c$  per molecule,  $1 \le a \le 10.000$ ,  $0 \le b \le 500$ ,  $1 \le c \le 6$ ,  $0 \le d \le 500$ , e is 0 or 1,  $0 \le n \le 500$ ,  $0 \le m \le 100$  where m+n exceed 5 and x is 0, 1, 2, 3, 4, 5 or 6.

3. A composition according to claim 1, characterized in that component (c) contains at least one compound of the formula

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$$R_{3}^{1}Si-O-[SiR_{2}^{1}-O-]_{a}SiR_{2}^{1}-Y-(O-R_{d}^{2})_{d}-X_{e}-[Z_{f}-COOH]_{c}$$
 (IV) or

 $[HOOC-Z_{f}]_{c}-X_{e}-(R^{2}-O)_{d}-Y-[SiR^{1}{}_{2}-O-]_{a}SiR^{1}{}_{2}-Y-(O-R^{2})_{d}-X_{e}-[Z_{f}-COOH]_{c}$  (V) or

15  $R^{1}_{3}Si-O-\{[SiR^{1}_{2}-O-]_{n}[SiR^{1}(-Y-(O-R^{2})_{d}-X_{e}-[Z_{f}-COOH]_{c})-O-]_{m}\}-SiR^{1}_{3}$  (Va) or

$$\begin{array}{c} E \\ E \\ O - Si \\ R1 - Si \\ O \\ Si - E \\ Si - E \\ R^1 \\ E R^1 \\ x \end{array}$$
(Vb),

wherein X is a linear or branched hydrocarbon or an aryl residue that may contain an oxygen atom and/or an ether group with 6 to 14 C-atoms and a valency of c, Y is a linear or branched alkylene group with 1 to 10 C-atoms or a cycloalkyl group with 4 to 14 C-atoms, Z is a linear or branched alkylene or alkenylene or aryl group that may contain an ester group with 1 to 16 C-atoms,  $R^1$  is a linear or branched alkyl or fluoroalkyl group with 1 to 8 C-atoms or a cycloalkyl or aryl group with 4 to 14 C-atoms,  $R^2$  is a linear or branched alkylene group that may contain a carbonyl group with 1 to 8 C-atoms, E is  $R^1$  or -Y-(O- $R^2$ )<sub>d</sub>-X<sub>e</sub>-[Z<sub>r</sub>-COOH]<sub>c</sub> with at least one residue -Y-(O- $R^2$ )<sub>d</sub>-X<sub>e</sub>-[Z<sub>r</sub>-COOH]<sub>c</sub> per molecule,  $1 \le a \le 10.000$ ,  $1 \le c \le 6$ ,  $0 \le d \le 500$ , e is 0 or 1, f is 0 or 1,  $0 \le n \le 500$ ,  $0 \le m \le 100$  where m+n exceed 5 and x is 0, 1, 2, 3, 4, 5 or 6.

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4. A composition according to claim 1, characterized in that component (c) contains at least one compound of the formula

$$^{1}_{3}\text{Si-O-[SiR}^{1}_{2}\text{-O-]}_{a}\text{SiR}^{1}_{2}\text{-Y-(O-R}^{2})_{d}\text{-T}_{e}\text{-[(O-R}^{2})_{b}\text{-NHR}^{3}]_{c}$$

5 (VI) or

$$[R^{3}HN-(R^{2}-O)_{b}]_{c}-T_{e}-(R^{2}-O)_{d}-Y-[SiR^{1}{}_{2}-O-]_{a}SiR^{1}{}_{2}-Y-(O-R^{2})_{d}-T_{e}-[(O-R^{2})_{b}-NHR^{3}]_{c}$$
 (VII) or

10  $R^{1}_{3}Si-O-\{[SiR^{1}_{2}-O-]_{n}[SiR^{4}(-Y-(O-R^{2})_{d}-T_{e}-[(O-R^{2})_{b}-NHR^{3}]_{c})-O-]_{m}\}-SiR^{1}_{3}$  (VIIa) or

$$\begin{array}{cccc}
F & R^1 \\
F & O - Si & O \\
Q & Si - F \\
Si - O & R^1
\end{array}$$

(VIIb),

wherein T is a linear or branched hydrocarbon or an aryl residue that may contain an oxygen atom and/or an ether group with 6 to 14 C-atoms and a valency of c, Y is a linear or branched alkylene group with 1 to 10 C-atoms or a cycloalkyl group with 4 to 14 C-atoms,  $R^1$  is a linear or branched alkyl or fluoroalkyl group with 1 to 8 C-atoms or a cycloalkyl or aryl group with 6 to 14 C-atoms,  $R^2$  is a linear or branched alkylene group that may contain a carbonyl group with 1 to 8 C-atoms, F is  $R^1$  or -Y-(O- $R^2$ )<sub>d</sub>-T<sub>e</sub>-[(O- $R^2$ )<sub>b</sub>-NH $R^3$ ]<sub>c</sub> with at least one residue -Y-(O- $R^2$ )<sub>d</sub>-T<sub>e</sub>-[(O- $R^2$ )<sub>b</sub>-NH $R^3$ ]<sub>c</sub> per molecule,  $R^3$  is a linear or branched alkyl or fluoroalkyl group with 1 to 8 C-atoms or a cycloalkyl or aryl group with 6 to 14 C-atoms or H,  $R^4$  is  $R^1$  or Methoxy or Ethoxy, 1  $R^2$  a  $R^2$  10.000,  $R^2$  10.000,  $R^2$  11.000,  $R^2$  12.000,  $R^2$  12.000,  $R^2$  13.000,  $R^2$  13.000,  $R^2$  14.000,  $R^2$  15.000,  $R^2$  15.000,  $R^2$  16.000,  $R^2$  16.000,  $R^2$  17.000,  $R^2$  17.000,  $R^2$  18.000,  $R^2$  19.000,  $R^2$  19.000,  $R^2$  19.000,  $R^2$  10.000,  $R^$ 

- 25 5. A composition according to one of the claims 1 to 4, characterized in that it contains one or more adjuvants as component (f).
  - 6. A composition according to one of the claims 1 to 5, characterized in that it contains the following components in the following amounts:

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- a) 2,5 to 40 weight percent of component (a),
- b) 0,2 to 10 weight percent of comcomponent (b),
- c) 0,5 to 8 weight percent of component (c),
- d) 0.1 to 7 weight percent of component (d),
- e) 0.05 to 4 weight percent of component (e), based on elemental Pt, and
- f) 31 to 96.65 weight percent adjuvants as component (f), wherein the components add up to 100 weight percent.
- 7. A two component system comprising components A and B, wherein component A comprises
  - a) at least one polydiorganosiloxane having at least two olefinically unsaturated groups as component (a),
  - b) at least one organohydrogenpolysiloxane as component (b),
  - c) at least one alkylsiloxane having at least one carbinol, carboxy or amino group as component (c),

and component B comprises

- d) at least one condensation cure component as component (d) and
- e) at least one addition cure precious metal catalyst as component (e).
- 20 A two component system according to claim 7, characterized in that component (c) 8. contains at least one compound of the formula II, III, IIIa, IIIb, IV, V, Va, Vb, VI, VII, VIIa or VIIb or a mixture of two or more thereof, wherein X is a linear or branched hydrocarbon or an aryl residue that may contain an oxygen atom and/or an ether group with 6 to 14 C-atoms and a valency of c, T is a linear or branched hydrocarbon or an aryl residue that may contain an oxygen atom and/or an ether group with 6 to 25 14 C-atoms and a valency of c, Y is a linear or branched alkylene group with 1 to 10 C-atoms or a cycloalkyl group with 4 to 14 C-atoms, Z is a linear or branched alkylene or alkenylene or aryl group that may contain an ester group with 1 to 16 Catoms, R1 is a linear or branched alkyl or fluoroalkyl group with 1 to 8 C-atoms or a 30 cycloalkyl or aryl group with 4 to 14 C-atoms, R2 is a linear or branched alkylene group that may contain a carbonyl group with 1 to 8 C-atoms, D is R1 or -Y-(O-R2)d- $X_e$ -[(O-R<sup>2</sup>)<sub>b</sub>-OH]<sub>c</sub> with at least one residue -Y-(O-R<sup>2</sup>)<sub>d</sub>- $X_e$ -[(O-R<sup>2</sup>)<sub>b</sub>-OH]<sub>c</sub> per molecule, E is  $R^1$  or  $-Y-(O-R^2)_d-X_e-[Z_f-COOH]_c$  with at least one residue  $-Y-(O-R^2)_d-X_e-[Z_f-COOH]_c$

COOH]<sub>c</sub> per molecule, F is R<sup>1</sup> or -Y-(O-R<sup>2</sup>)<sub>d</sub>-T<sub>e</sub>-[(O-R<sup>2</sup>)<sub>b</sub>-NHR<sup>3</sup>]<sub>c</sub> with at least one residue -Y-(O-R<sup>2</sup>)<sub>d</sub>-T<sub>e</sub>-[(O-R<sup>2</sup>)<sub>b</sub>-NHR<sup>3</sup>]<sub>c</sub> per molecule, R<sup>3</sup> is a linear or branched alkyl or fluoroalkyl group with 1 to 8 C-atoms or a cycloalkyl or aryl group with 6 to 14 C-atoms or H, R<sup>4</sup> is R<sup>1</sup> or Methoxy or Ethoxy,  $1 \le a \le 10.000$ ,  $1 \le c \le 6$ ,  $0 \le d \le 500$ , e is 0 or 1, f is 0 or 1,  $0 \le n \le 500$ ,  $0 \le m \le 100$  where m+n exceed 5 and x is 0, 1, 2, 3, 4, 5 or 6.

- 9. A composition according to claim 7 or 8, characterized in that component A contains the following components in the following amounts:
- a) 8 to 25 % by weight of component (a),
  - b) 1 to 10 weight percent of component (b),
  - c) 0,5 to 10 weight percent of component (c) and
  - d) 55 to 90,5 weight percent of adjuvants, wherein the components add up to 100 weight percent.

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- 10. A composition according to claim 7 or 8, characterized in that component B contains the following components in the following amounts:
  - a) 0,5 to 10 weigt percent of component (d),
  - b) 0,1 to 5 weight perent of component (e), based on elemental Pt, and
- 20 c) 85 to 99,4 weight percent of adjuvants,wherein the components add up to 100 weight percent.
  - 11. A composition according to one of the claims 1 to 10, characterized in that it contains at least one adjuvant selected from the group consisting of inert carrier materials, inhibitors, fillers, pigments or solvents.
  - 12. A method for the preparation of a composition according to claim 1, characterized in that
    - at least one polydiorganosiloxane having at least two olefinically unsaturated groups as component (a),
    - b) at least one organohydrogenpolysiloxane as component (b),
    - c) at least one alkylsiloxane having at least one carbinol, carboxy or amino group as component (c),

- d) at least one condensation cure catalyst as component (d) and
- e) at least one addition cure precious metal catalyst as component (e) are thoroughly mixed.
- 5 13. Method for the preparation of impressions of an object, wherein the surface of the object is brought into contact with a composition according to one of the claims 1 to 6 or with a mixture of components A and B of a two component mixture according to one of the claims 7 to 10 or with a composition according to claim 11 or with a composition prepared according to claim 12.
- 14. Method according to claim 13, characterized in that the object is a surface within the oral cavity of a human.
- Use of at least one alkylsiloxane having at least one carbinol, carboxy or amino groupfor the preparation of a composition for taking impressions of an object.
  - 16. Use according to claim 15, characterized in that the object is within the oral cavity of a human.
- 20 17. Dental filling or dental prosthesis, obtained from an impression taken with a composition according to one of the claims 1 to 6.